

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An image correction method ~~that provides an image signal with image correction by switching correcting methods according to the image signal, the image correction method comprising:~~

detecting an imagea movement area having a movement according to the an image signal by comparing pixels in a frame with pixels in another framesignal;

detecting a boundary area of the movement area;

detecting a flat area in the frame having a gradational change between adjoining pixels in the frame smaller than a predetermined threshold by comparing gradation of image signals corresponding to the adjoining pixels in the framepixels; and

determining a first portion of the boundary area located in the flat area;

providing the first portion of the a boundary area of the image area having movement with a diffusion process, while not providing a second portion of the boundary area with the diffusion process;in an area having gradational change smaller than a predetermined threshold,

correcting a portion of the image signal corresponding to the first portion of the boundary area by a first correction method based on the diffusion process; and

correcting a portion of the image signal corresponding to the second portion of the boundary area by a second correction method different from the first correction method.

~~—wherein, the image correction is performed differently between the image area having movement of which the boundary area is diffused and other areas.~~

2. (Currently Amended) An image correction device ~~having a~~comprising:

movement detecting means for detecting an imagea movement area having movement according to an image signal by comparing pixels in a frame with pixels in another frame;signal; and an image correcting means capable of providing the image signal with image correction and switching correction methods according to a control signal, the device further including:

a movement boundary detecting means for detecting a boundary area of the image movement area having movement;

a-gradational change detecting means for detecting a flat area in the frame having a gradational change smaller than a predetermined threshold ~~an image area with great gradational change~~ by comparing gradation of ~~image signals corresponding to adjoining~~ pixels in the frame; ~~pixels;~~ and

combination determining means for determining a first portion of the boundary area located in the flat area;

a-movement signal modulating means for providing the first portion of the boundary area of the image ~~movement area having movement~~ with a diffusion process, while not providing a second portion of the boundary area with the diffusion process; and in an area excluding the ~~image area with great gradational change,~~

~~wherein, the image correcting means~~ for correcting a portion of the image signal corresponding to the first portion of the boundary area by a first correction method based on the diffusion process, and correcting a portion of the image signal corresponding to the second portion of the boundary area by a second correction method different from the first correction method. ~~switches correction methods according to an output from the movement signal modulating means.~~

3. **(Currently Amended)** The image correction device of claim~~Claim~~ 2, wherein the movement signal modulating means ~~is formed of~~ includes a delay circuit that delays an output of the movement detecting means at least in a horizontal direction or in a vertical direction.

4. **(Currently Amended)** The image correction device of claim~~Claim~~ 3, wherein the movement signal modulating means provides the boundary area of the image area having movement with a diffusion process by randomly switching an amount of delay fed from the delay circuit that delays the output of the movement detecting means in a horizontal direction or in a vertical direction.

5. **(New)** The image correction method of claim 1, wherein said determining of the first portion

of the boundary area comprises:

calculating the flat area by performing a logical NOT operation on an output from the gradational change detecting means; and

determining the first portion of the boundary area by calculating a logical conjunction of a result from the movement boundary detecting means and the calculated flat area.

6. (New) The image correction device of claim 2, wherein the combination determining means is operable to:

calculate the flat area by performing a logical NOT operation on an output from the gradational change detecting means, and

determine the first portion of the boundary area by calculating a logical conjunction of a result from the movement boundary detecting means and the calculated flat area.